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(See Story Inside)

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THE ILLINOIS ENGINEER, JANUARY, 1954—VOLUME XXX, NO. 1

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Affiliated with the National Society of Professional Engineers

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ILLINOIS ENGINEER: W. A. OLIVER, Editor-in-Chief; H. E. BABBITT, Associate Editor

Of Professional Interest

THE ILLINOIS ENGINEER—THIS MONTH

A Happy and Prosperous New Year to Everyone

The Brichler 3 By 1 Membership Drive

There are valuable intangible returns which will be gained by placing copies of the ILLINOIS ENGINEER in the hands of prospective members. Among those will be some publicity concerning the aims, activities and accomplishments of the Illinois Society.

This is worthwhile if nothing else is achieved, but the primary purpose of the Brichler 3 by 1 campaign is increase in membership. HAVE YOU DONE YOUR PART? Have you placed your copies of the November and December issues and now the January issue in the hands of three prospective members? Have you recorded their names on one of the post cards tipped in each of the three magazines and returned it to society headquarters? If you haven't done this, do so at once. Your interests and the interests of the Society demand it.

W. A. OLIVER, Editor

GUNLOCK, OFFICIAL NOMINEE FOR VICE PRESIDENT OF N. S. P. E.

(See also Cover Picture)

Virgil E. Gunlock, Past President of I.S.P.E. and Commissioner of Public Works, Chicago, has been picked by the Nominating Committee as official nominee for vice president of the National Society of Professional Engineers.

Mr. Gunlock's work is well known both in the Society and as Commissioner of Public Works. Bold steps are being taken in unravelling Chicago's traffic snarls, and under his able direction, construction is now proceeding toward the early completion of Wacker Drive, Congress Street Expressway, the Milwaukee-Dearborn-Congress Subway, and the 10,000-parking-unit garage program. All are essential elements in the comprehensive City Plan many years in formulation by the Chicago Plan Commission.

Our cover picture on this issue was taken looking west from the Post Office building, along the cleared route of the Congress Street Expressway. The steel structure in the center foreground will take this highway from the river bridge and the portal through the Post Office down below ground level beyond Halsted Street. Just beyond is the location of the inter-change with the Northwest and South routes of the Comprehensive System of Expressways. The first of 26 bridges within the city which will convey north-south traffic over the depressed expressway can be seen in the center background.

We are indebted to W. H. Jacobs, Member, Chicago Chapter, and Carl L. Gardner, Secretary of the City Planning Advisory Board, City of Chicago, for the photograph and the above information.

PRESIDENT'S MESSAGE

How about it, ENGINEER? Do you BELONG Professionally? If not, I am making this special appeal to you! Will you join our co-ordinated three-level organization: Local, State and National?

The weight of additional members will enable the Illinois and National Societies of Professional Engineers to wield greater influence in all matters affecting the Profession.

New members mean new ideas, fresh enthusiasm, the energy and drive that new blood always brings to an organization.

We need both ACTIVE and SUSTAINING members! It would be impossible for some engineers to become active in every society to which they belong. That does not mean their membership is not worthwhile. They are the men who join an organization for the purpose of lending their moral and financial support!! They are our sustaining members! We need them!

In every organization there is a certain group of members who, by reason of their ability, position and economic freedom, shoulder the responsibility of management. They are the workers.

We need both! So remember—if you are too busy to become an active member, your help as a sustaining member is equally important.

You are receiving on-the-spot representation in National, State and local matters affecting your welfare.

The National Society of Professional Engineers is the only engineering organization with headquarters and full-time staff in Washington, D. C. A parcel of land has been purchased at 2029 "K" Street, N.W., Washington, D. C., and the project is under way for the erection of a new modern office building.

Governmental agencies and officials constantly call upon N.S.P.E. headquarters for information and assistance.

Interested members may receive free, on request, the semi-monthly Legislative Bulletin for the latest developments on the National level.

The Illinois Society of Professional Engineers and our affiliated National Society of Professional Engineers are

CONTENTS OF THIS ISSUE		Pages
Of Professional Interest		1-3
Report of National Director		4
To the Prospective Member		6-8
N. S. P. E. 1954 Program		8-9
Professional Directory		10

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respectively looking after our interest on State and National levels. We are interested in any and all legislation affecting the Profession.

In the public interest, efforts are being made at the present time to have Professional Engineers included on State and Municipal Commissions establishing policies and regulations for activities of an engineering nature. In many instances, such Commissions did not include a Professional Engineer.

Our organization fosters and stimulates engineering leadership in public service activities on a Community, State and National level.

However, it is not all work. There are social meetings, parties, outings, picnics, ladies' auxiliaries, and many other opportunities to associate with your fellow engineers.

So, ENGINEER—How about it? You need us! We need you!

RAYMOND G. BRICHLER, President, I.S.P.E.

C. A. ASHLEY, MEMBER ISPE, NSPE HONORED

Prepared by Rob Roy

The honoring of Clifford A. Ashley for his 39 years of service as City Engineer to the City of Naperville and Mayor Charles Wellner's presentation of a gold wrist watch in behalf of the City Council in recognition of his faithful performance of the office was an act of much concern to the engineering profession.

Cliff Ashley joined the State Society in 1917 and is recorded as an "Old Timer" in the organization. He served on numerous committees and was chairman of "Organization Committee" in the formation of the Du Kane Chapter of which he is a charter member. Born and raised in Wheaton sixty-five years ago, his family and that of Mrs. Ashley (Isodore Compton) are numbered among the early settlers. They resided in the old Compton homestead up until a few months ago and now live in the original home of Mr. Ashley.

As a partner in the Wells Engineering Company of Geneva, now owned entirely by Mr. Ashley, he handled all the municipal engineering and construction work of more than forty cities and towns in the Fox River Valley and adjacent counties involving millions of dollars. His work in subdividing much of the suburban areas of Kane and Du Page Counties and the subsequent construction of the sewer, water and pavement improvements are records he points to with pride.

In presenting Mr. Ashley with the watch, Mayor Wellner said, "The basically sound and constructive accomplishments given our city these past 39 years, exclusive of your one and one-half years of service in the First World War, is the reason for this token of appreciation in behalf of the City of Naperville."

The desire of knowledge, like the thirst of riches, increases ever with the acquisition of it.

—Sterne

TOWARD SOCIETY IMPROVEMENT

Recommendations of Exploratory Committee

The Exploratory Committee is herewith presenting its ideas on the various phases of our local chapter and our Society at large. The contents of this report are thoughts of eight members who offer helpful suggestions to enhance our meetings and generally produce more satisfactory conditions among Professional Engineers.

Professionalism: It is recommended that we consider a review and re-evaluation of the exemption clauses in the present state law requiring registration.

Attendance: 1. Make a survey to determine how many members attend other activities on our regular meeting nights. 2. Encourage frequent reports from all committee chairmen or members on their activities. This will stimulate regular attendance and promote committee work.

Meetings and Programs: 1. Arrange individual seating by placing name cards (or badges) around tables. The purpose of assigning the seats is to provide a better opportunity to meet and talk with different people at each meeting. 2. Give away door prizes to add more fun to our meetings. The manner of presentation may also stimulate better fellowship. 3. Have occasional smoker meetings and invite some industrial, professional and civic leaders to these meetings. 4. Hold debates on pertinent topics to broaden our interest and scope on professional and other matters.

Membership: Approach engineers and engineers in training, employed with the various local organizations, inviting them to our Guest Night. Make the program a real occasion with speakers from the state and national level. This should enlighten our own members and in addition provide first-hand information to our guests as prospective members.

Publicity and Periodicals: 1. Offer our services to our community more readily and cheerfully as a group and individually. 2. Practice a fuller measure of enthusiasm in our relations with young and other engineers when discussing the merits of our society. 3. Bring Professional Engineering before the public regularly by publishing Local, State, and National news of interest. In other words, become more cognizant of the value of good publicity and public relations. 4. Re-evaluate and improve our present periodicals so that they might serve their intended purpose more effectively.

EXPLORATORY COMMITTEE,

JOE ANDERSON	GERALD HAMMOND
RAY BEAUMAN	DICK KINNEMAN
PARKE BOYER	ROGER SNELSON
DUANE CHICOINE	FRED TRATZIK, Chairman

COST OF LIVING INDEX

The correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries was 192.9 for October, 1953. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

Duncan McEvoy Campbell, 1894-1953

The Society lost a devoted friend and worker when Duncan M. Campbell, Past President, died on November 24, 1953.

Mr. Campbell had been an active and working member of the Illinois Society of Professional Engineers since 1927. He became a member of the N.S.P.E. in 1945. He served on numerous committees and held various offices both in the state organization of the I.S.P.E. and in the Chicago Chapter. He served as Vice-President and Comptroller in 1946 and as President in 1947.

Mr. Campbell had been with the Cook County Highway Department since his graduation from the Civil Engineering Department, University of Illinois, in 1917, except for two years service as second lieutenant, Coast



Artillery Corps, U. S. Army, during the First World War. At the time of his death he had been for some years Chief Engineer of the Cook County Department.

He was a member of the American Society of Civil Engineers, American Road Builders Association, and of the American Legion, Edgar A. Lawrence Post, No. 646.

Mr. Campbell is survived by his wife, Hulda M. Campbell, their son, Duncan McEvoy Campbell, Jr., and several sisters and brothers.

The Society will long feel the effect of the influence of Duncan M. Campbell upon its objectives and policies and he will be greatly missed by his many friends among its membership.

ILLINOIS ENGINEERING COUNCIL ANNOUNCES OFFICERS

At the annual meeting of the Illinois Engineering Council held recently in Chicago, John A. Harrington, director from the Illuminating Engineering Society, was elected president for 1954. The Council is composed of directors from 16 engineering societies throughout the state, which represents over 12,000 engineers.

Other elected officers and their affiliated societies are Max A. Faucett, first vice president, director from the American Institute of Electrical Engineers; W. R. Marston, second vice president, director from Western Society of Engineers; and Ellis Danner, secretary-treasurer, director from American Society of Civil Engineers.

Members of the executive committee are R. R. Bartelsmeyer, director from the Illinois Association of County Superintendents of Highways; John G. Duba, director from the Illinois Society of Professional Engineers; and E. R. Hendrickson, director from the Western Society of Engineers.

The purposes of the Council are to further the public welfare wherever technical and engineering knowledge and experience are involved, and to consider and act upon matters of common concern to the engineering and technical professions.

HAEFLIGER RETIRES FROM P.C.A.

W. H. (Bill) Haeffliger, Member I.S.P.E. of Dixon, retired December 31 after 28 years as field engineer in northwestern Illinois for the Portland Cement Association.

Mr. Haeffliger has lived in Dixon since being employed by the Association in 1925. He and his wife will continue to make their home there where he expects to remain active in the engineering and construction fields. Mr. Haeffliger is a graduate of Northwestern University, served with the Army Engineers in World War I and has been active in affairs of the Rock River Chapter of the Illinois Society of Professional Engineers.

His successor with the Portland Cement Association will be Allen W. Osterling, who holds an engineering degree from Purdue University and a degree in business administration from Indiana University. Mr. Osterling has been office engineer for the Illinois district of the Portland Cement Association since 1950. He and his wife will make their home in Dixon.

This is the final test of a gentleman: his respect for those who can be of no possible service to him.

—Phelps.

Report of the National Director

N. S. P. E. BOARD MEETING, INDIANAPOLIS, INDIANA,
NOVEMBER 6 AND 7, 1953

GEORGE DE MENT, National Director

There were some extremely important actions taken at the meeting of the Board of Directors of the National Society of Professional Engineers which met at Indianapolis, Indiana, November 6th and 7th, 1953. These actions are listed and a discussion of each will follow the listing.

1. A most important action was the decision to decline the invitation to join the Engineering Joint Council. It was agreed that NSPE would cooperate completely with EJC in those areas of mutual interest that would be of benefit to the entire engineering profession.
2. It was decided to buy the land for and to build a headquarters building at 2029 K Street in Washington, D. C., at a cost of \$230,000. This building will house all the staff of NSPE at the present time and would provide for expansion that is anticipated in the future.
3. The Constitutional Committee was ordered to study and report at the next Board meeting on the following recommended changes in the constitution:
 - 1) Change the name of E. I. T. to Engineer Member.
 - 2) Provide full society voting privileges for young Engineer Members.
 - 3) Permit a young Engineer Director-at-large from each of the six administrative areas, as a full voting member of the National Board of Directors.
4. It was decided to maintain our existing position on labor legislation which provides: one, for the retention of the present Taft-Hartley provision of a separate unit vote in collective bargaining elections; and second, that the law should be amended in order that all professional personnel of a company, including both supervisory and non-supervisory personnel, may be able to operate in professional matters through non-bargaining professional organizations. (This second item is the proposal which is referred to as the "Freedom of Association.")

An amendment which was proposed to further change the Taft-Hartley Act and was made by the New York Society has been indefinitely postponed.

Invitation from EJC to NSPE Declined

On October 12th, 1953, three delegates from NSPE met with three delegates from EJC to discuss the invitation from EJC to NSPE. The representatives appointed by NSPE were John Coleman, W. F. Ryan and C. T. Shoch. The representatives from EJC were Thorndike Saville, Vice-President of EJC and Dean of Engineering at NYU; Dr. H. S. Osborne, Chairman of the EJC Committee on Constitution and By-Laws (retired Chief Engineer of A. T. & T. Co.), and E. J. Kates, Consulting Engineer.

NSPE representatives requested statements and clarification regarding the following matters:

- I. *Contemplated EJC activities and their relationship to similar activities of member and non-member groups.*

The statements regarding this subject were vague and it was evident that this problem had not been thoroughly discussed by EJC.

Mr. Shoch stated that there was no indication that EJC would discontinue the exercise of initiative in its own behalf as and when opportunities arose for the development and promotion of programs, even though such programs might be in the field now covered by NSPE.

- II. *Financing of EJC.*

It was pointed out that on the basis of NSPE dues income of \$300,000 a portion of the annual cost of EJC and NSPE would be approximately \$4,000 to \$6,000.

- III. *Probability of individual membership in EJC.*

At the present time it is not likely that there will be any solution to the problem of individual membership in EJC.

Mr. Ryan stated that while it appears that EJC may ask the individual members of the constituent societies to contribute some money as individual dues, they have no intention of having a voting membership.

- IV. *Qualifications for eligibility of organizations for membership in EJC.*

Mr. Ryan stated that the present constitution of EJC states that a society to be eligible for membership must be national in scope and have a membership of more than 5,000, of whom at least 50% are 'Engineers.' Engineers are described as people who have an engineering degree from an accredited curriculum or who are registered as Professional Engineers. The American Society of Refrigerating Engineers has been rejected on the ground that less than 50% of the membership qualify under this liberal definition of 'Engineer.'

- V. *Affiliation of state and regional organizations and engineer groups with EJC.*

The representatives of EJC at the above meeting stated that it has never been proposed that EJC should set up local groups, although a committee has been appointed which is considering addressing a questionnaire to all of the state, regional, and local organizations. The basis for establishment of regional and local units with EJC has not been defined.

- VI. *Extent of EJC authority for direct action.*

EJC has no constitutional authority for direct

action. Mr. Marshall noted that the cumbersomeness of referring all decisions to the constituent societies prior to action was discussed and it was pretty generally agreed that in order to be successful there must eventually be developed some means for direct action on the part of EJC.

In answer to a question with respect to whether or not NSPE would be barred from membership in the event that it did not accept the invitation, the representatives of EJC clearly pointed out that such would not be the case; however, the initiative toward membership in such an event would next have to come from NSPE.

From the discussion at the meeting of the Board of Directors there seemed to be a feeling that NSPE was anxious to cooperate fully with EJC. Those men who were closest to the situation felt there were so many intangibles regarding our membership in EJC that NSPE should not accept the invitation to join EJC at this time.

Headquarters Building

A Committee of Advisors on Headquarters Housing reported to the Board of Directors' meeting that in their judgment N.S.P.E. should construct a building at 2029 "K" Street in Washington, D. C., at a cost of \$230,000. The Chairman of this committee was Past President Sid. Stolte.

The committee investigated suitable rental property and found that available rentals in Washington could be obtained to provide the necessary space at a price of from \$4.00 to \$5.35 per square foot per year. Three locations were available at an annual rental of from \$18,400.00 per year to \$24,075.00 per year.

The committee also considered purchase of improved property.

The third possibility investigated was the purchase of a site and the construction of a building.

The committee recommended the third possibility. The comparison, based on a 20-year amortization at 4½% interest and including taxes, maintenance and repair, custodial services and other incidental expenses, showed that the cost per square foot to N.S.P.E. (in lieu of rent) would be approximately \$2.75. Using the same sort of analysis with regard to the purchase of improved property, the cost to the Society would be \$3.79 per square foot.

After considerable discussion, the Board of Direction voted to authorize the officers:

- (1) To buy land and construct a building at 2029 "K" Street in Washington, D. C., at a cost of \$230,000.00.
- (2) To issue 190 Bonds at \$1,000.00 or equal amounts to finance the project at an interest rate of not to exceed 4½%.
- (3) To hire consultants to proceed with the design and construction of the building.
- (4) To arrange interim financing and to take any other appropriate action necessary for the completion of the project.

Changes in the Constitution Regarding Young Engineers

The Committee on Young Engineers feels that N.S.-P.E. must take specific steps to make the young engineer an important part of N.S.P.E. The Board of Direction accepted the report of the Young Engineers Committee and referred the recommended changes in the Constitution to the Constitutional Committee for study. Those changes are listed as Item No. 3 in the first part of this report.

Legislation Regarding the Taft-Hartley Act

An amendment to the Taft-Hartley Act was presented to the Board of Direction for consideration by the New York State Society. The amendment would exempt professional employees from the Taft-Hartley Act. This would take away the rights of a registered professional employee to engage in collective bargaining activities if he desired to do so. N.S.P.E. policy clearly holds that professionalism and unionism are incompatible concepts, but we have heretofore made the decision a matter of individual choice. The individual choice would be eliminated under the New York amendment.

The proposal that N.S.P.E. sponsor such an amendment brought forth lengthy discussion on the provisions of the Taft-Hartley Act, and the action mentioned under Item No. 4 above was the result of the discussion.

President T. Carr Forrest, Jr. requested that Chapters on all levels of the Society take action to contact their legislators and urge them to support House Bill No. 5504 which is the "Freedom of Association Amendment" introduced by Representative Kearns of Pennsylvania.

40TH ANNUAL ILLINOIS HIGHWAY ENGINEERING CONFERENCE

The 40th Annual Illinois Highway Engineering Conference is to be held in Urbana during the period, March 2-4, 1954.

Detailed program arrangements will be announced later. The program outline follows:

Tuesday, March 2

9:30-12:30—General session—Latest developments in concrete, bituminous and gravel road construction.

2:00- 5:00—Group meetings—Open discussion of selected highway subjects.

Wednesday, March 3

9:00-12:30—General session—Highway legislation, administration, and finance.

2:00- 5:00—Group meetings—State, county, and engineering problems.

6:30—Annual Banquet.

Thursday, March 4

8:30-11:30 } Classroom instruction on basic highway
1:00- 4:00 } subjects.

WM. S. POLLARD, JR., Ass't Conference Director

To The Prospective Member

The purpose of this issue of the ILLINOIS ENGINEER is to bring before prospective members the aims and purposes of the Illinois Society of Professional Engineers and of the National Society of Professional Engineers of which it is an affiliate. The following series of articles has been prepared by a partial list of officers and committee chairmen of the Illinois Society to explain the function of their particular activity. Note that these statements tell a purpose only, without any reference to accomplishment. Let it be understood at this point that the Society is proud of its accomplishments which have increased at an accelerated rate during the years.

But in order to speak with a stronger voice for the engineering profession which is its prime purpose, the Society needs a larger membership. That is the reason this issue of the Society's magazine has been placed in your hands. That is the reason that your attention is directed to the fold-in application for membership on the facing page and that your consideration of such membership is respectfully requested.

W. A. OLIVER, Editor

PLEASE NOTE:

After the prospective member has read this copy of the *Illinois Engineer*, it is requested that he pass it on to an engineer friend who may be interested in membership in I.S.P.E.

ACTIVITIES OF THE PROFESSIONAL EDUCATION COMMITTEE

M. E. AMSTUTZ, Chairman

The objectives of the Professional Education Committee as set forth by the Board of Directors of the Society cover a large field. These objectives can be tersely stated as being methods of promoting better contact between the practicing Professional Engineers and the students and faculties in our Engineering schools, with the view of encouraging a closer relationship and developing a professional consciousness on the part of the young engineer.

It is our belief that too much emphasis has been placed on the technical training of the Engineer and too little on the professional aspects of his career. The young engineer must have pride in his profession and develop that professional consciousness which is so evident in other professions, such as is exhibited by members of the medical and legal professions.

We, who have been Professional Engineers for many years, have been disappointed that our Engineering schools have taken so little interest in the professional engineering societies of their respective states. Too many of our Engineering schools have a misunderstanding of the true objectives of the National Society of Professional Engineers.

The Education Committee is arranging meetings with the faculties and students and it is hoped that interest will be developed in the creation of student chapters. We are encouraging the program chairmen of our individual chapters to have at least one faculty member of each of our four Engineering schools address chapter meetings each year. It is suggested that whenever an "Engineer-in-Training" receives his Certificate of Registration, that presentation of the certificate be made at a regular chapter meeting of the chapter in whose geographical area the registrant resides. The committee also recommends that the general chairman of the Annual Conven-

tion of the Society encourage members of the faculties and students to attend the Convention.

Your committee will use every means available to promote the objectives assigned to it and to bring about a closer relationship between the members of the Society and engineering students and faculties.

THE SECRETARY-TREASURER

A. D. SPIGER, Secretary-Treasurer, I.S.P.E.

What is the function of the Secretary-Treasurer?

To answer that question, let us first look at the Constitution, where the duties of the office are defined in typical constitution and by-law fashion. We find Article IX, Section 3 and Section 4 covering the duties as follows:

"As Secretary, the Secretary-Treasurer shall be custodian of the property of the Society and shall deliver it to his successor. He shall present at the annual business meeting of the Society a report concerning the affairs of the Society. He shall record the proceedings and discussions of Annual Meetings and of the meetings of the Board of Direction. He shall be ex-officio librarian of the Society and as such shall collect and preserve all books, pamphlets, papers and documents belonging to the Society.

"As Treasurer, the Secretary-Treasurer shall keep an account of the financial affairs of the Society and shall present at the annual business meeting of the Society a report of all receipts and disbursements during the preceding fiscal year."

After reading the above, one can readily see that there are implications which indicate that the responsibilities of the office are far-reaching. Perhaps the best description of what the Secretary-Treasurer must do is contained in a committee report which was presented at the 68th annual meeting. An excerpt from this report follows:

"... It becomes the responsibility of the Secretary-Treasurer, with the assistance of employed personnel, to handle what might be termed some of the executive work and all of the clerical work of the Society. His office acts as the executive center for carrying out of mandates from the Board of Direction, of directives from the President and the Executive Committee. The office co-

YOUR PART (AS MEMBER OF I. S. P. E.) IN THE MEMBERSHIP DRIVE

1. If you have not already done so, fill out the card which was included in the November issue (also this issue) with the three names to whom the November, the December, and January ILLINOIS ENGINEER are to be sent, and drop it in the mail.
2. Paste a label containing your prospect's name and address over your name and address on the front cover.
3. Put on a three-cent stamp and drop the magazine in the mail.

NOTE: If you are saving a file of copies of the ILLINOIS ENGINEER, send request to the Executive Secretary's office and each of your three copies will be replaced. The important thing is to get this copy into the hands of a prospective member without delay. Thanks for your help.

ordinates the work of the Chapters and of Society Committees on the State level, and acts as a liaison center between the State and National Societies. In brief, the Secretary's office is the center of Society work, other than that done by officers, Chapters and committees . . ."

Some years ago the Board of Direction, in its wisdom, authorized the employment of an assistant to the Secretary, who took over many of the time-consuming responsibilities of the office. As the Society expanded its scope of activities, the responsibilities of the assistant grew, and his title was changed from Field Secretary to Assistant Secretary, and finally to Executive Secretary.

Today the Executive Secretary, Mr. P. E. Roberts, is the man who is carrying out most of the executive work of the Society. He has represented the Society at chapter meetings; he has spoken for the Society concerning legislative matters; he is the man to whom the public turns for information concerning I. S. P. E., and he carries out the routine business of the organization. In short, he carries out most of the duties of the Secretary-Treasurer as outlined in the Constitution.

What, then, is the function of the Secretary-Treasurer? As an elected member of the Board of Direction, the vested responsibility of the office lies in him, and the Executive Secretary, as an employee of the Society, is responsible to him. He keeps the minutes of the Board meetings and the Annual Meetings, signs checks and acts as a guiding hand over all the business that is transacted through the office. In the event the Executive Secretary leaves the employ of the Society for any reason, the work of the office must continue. It then falls upon the Secretary-Treasurer to handle all of the business and to find a new employee who meets with the approval of the Board.

And so, as we examine the office of Secretary-Treasurer, we find that the greatest responsibility of the office is that of keeping his finger on the pulse of the Society, directing the work of the Executive Secretary, and being prepared for any emergency in the organization.

LEGISLATIVE ACTION COMMITTEE

R. W. WALLACE, Chairman

The function of the Legislative Action Committee is to actively participate in the passage of or to oppose legislation which is before the General Assembly.

We scrutinize all bills as they are introduced so as to ascertain whether or not they affect the best interests of the Society.

Any bills of which we may be in doubt, we refer to the Legislative Analyzing Committee, who in turn recommend the course of action to the Board of Direction so that instructions may be given to our committee.

This committee does not originate any legislation.

In the great majority of cases we have been able to get the proponents of the bill to agree to amendments which have satisfied us. In recent sessions, we have not had a great deal of legislation which interested us and have largely confined our efforts to being on the alert. During the last session we passed an amendment to Professional Engineers Act which was commonly called the Engineer-in-Training amendment. Representative Willett, who is also a member of our committee, handled this bill.

The architects have kept us busy for several sessions. One group introduced a bill to which we objected as it would have prevented a Professional Engineer from obtaining the service of an architect in case he might have some architectural work in connection with a project of which he was in charge. When this was pointed out to them, they readily agreed to two amendments which made the bill satisfactory to us. Another Architect's bill to which we strenuously objected was never reported out of committee.

We have not had any meetings of the full committee in recent sessions of the Legislature, as it has been my policy as chairman not to call the committee unless there was some legislation of great importance or where it would look as though we were in trouble. There would be considerable loss of time and expense for some of the members to attend a meeting and unless I see it is absolutely necessary I do not call one. If such a condition should come to pass, our procedure would be to call a meeting, to alert all the chapters asking them to contact their representatives and to explain the Society's position to them. This method of contacting the members of the Legislature at home between sessions has always been the most effective.

As a number of the members of our committee are in Springfield most of the time, I have been able in effect to organize a sub-committee on very short notice for consultation.

FUNCTION OF NATIONAL DIRECTOR

G. L. DEMENT

The National Directors of the Illinois Society of Professional Engineers are the liaison officers between the State organization and the National Board of Direction.

As such it is their obligation to present to the National Board of Direction any matters which the State Society directs them to present. Conversely it is their obligation to report to the State Board of Direction any action that has been taken on a national level that is pertinent to the State Society or to its members.

Generally the report of the National Directors is carried in the ILLINOIS ENGINEER and it is the intention of the National Directors to continue this practice. The matters that are coming before the National Board of Direction are increasing in importance as they apply to each individual registered engineer and future reports of the National Director should be of greater and greater

interest to each engineer of the State Society. Reports on the legislation in Washington, particularly those matters affected by amendments to the Taft-Hartley Law as they apply to the registered professional engineer, will be made in the future. All engineers should look forward to the actions that will be taken by the National Board of Engineers on these matters.

A great deal of the action taken on the national level is reported in the ILLINOIS ENGINEER and in the *American Engineer*, but the National Directors are happy and anxious to clarify anything that is not understood by members of the Illinois State Society and would welcome inquiries made in that regard.

National's 1954 Programs

T. CARR FORREST, JR., President, N.S.P.E.

As indicated in my previous report (see Nov. '53 issue), I am now able to present to you a little more specific indication of the programs which will be made possible by the 1954 NSPE Budget.

In the Professional Society, the programs and expenditure of money are indicated by the policies determined by the Board of Directors, on which sit representatives of the 39 State Societies affiliated with NSPE. The Budget Committee spends a considerable amount of preparatory time in presenting to the Board a contemplated budget of expenditures, based upon the programs already approved by the Board or suggested by the respective committees. Of course, the Board has final review of the actual funds allocated for specific programs, but in broad general terms these are the items they will consider at their forthcoming Fall Meeting.

It is contemplated that the income of the National Society for 1954 will be very close to \$300,000. This is based upon the best estimates which can be gleaned from past history of the Society, the expanded activities which the Society is already embarked upon, and a number of other miscellaneous considerations which were presented to the Budget Committee.

Your National Society operates on a cash basis. As a result, it endeavors to spend in the calendar year only in proportion to the income during that year. Nevertheless, it can be appreciated that with a Society the size of NSPE there are items which carry over from year to year and make some variable in the actual amount of money available for various programs.

It is contemplated to spend more money on some of the existing programs of the Society in order that a better job can be done. One of these is the governmental liaison work, both in our office and in reporting of items to the profession. More and more interest is being evidenced each year in the *Legislative Bulletin*, and it is expected that an even better reporting service, both in the Bulletin and in the *American Engineer*, will be ac-

complished next year. More time will be spent by staff and Society officers in making contacts and presenting to influential governmental people the importance of professional engineering and the most appropriate means of utilizing this most essential national asset. A minimum of \$10,000 will be spent in this direction.

The Public Relations Program so auspiciously launched by the voluntary contributions of the NSPE membership over the past three years will not only be continued but expanded. It is difficult, of course, to delineate items of the NSPE total program which can be exclusively called Public Relations, because a great portion of our program is devoted toward the direction of information or influencing the opinion of a segment of our economy. Nevertheless, specifically devoted to several phases of Public Relations will be the continuation of the Executive Research Surveys, an expansion of the Engineers' Week activity both by national participation and assistance to Chapters and State Societies, and in general publicity concerning professional engineers and the Society's activities. It is expected that in excess of \$20,000 will be spent on this activity.

The engineering profession may well be at the crossroads of whether we continue to advance toward even greater professional status, or whether we reverse our trend and revert to a trade. I am referring to the extensive interest in the profession regarding the growth of collective bargaining organizations. NSPE proposes an aggressive program to determine the real causes behind interest in this development, activities in which the professional society can engage to assure continued professional progress, programs toward the better development of engineers in industry, government, and the teaching profession, and an endeavor to develop as much information as possible for the enlightenment of engineers on this important subject. It is contemplated that at least \$15,000 may be spent on this program.

General coordination of the units of NSPE with the

education of our young men and their progress toward professional stature through registration will require the concentrated efforts of our Registration and Education Committees and the necessity for securing a considerable amount of information on which to base their findings and ultimate recommendations. As much as \$10,000 may well be utilized in the surveys necessary for the development of basic data on which such studies and recommendations may be based.

An aggressive membership campaign is contemplated for next year, and money has been provided in the budget in the extent of \$8,000 for such activities. Only as NSPE continues to grow will it maintain its aggressive programs, and many of the problems of both the profession and the Society can be resolved with the growth of NSPE.

Recognizing that this growth must be a three-level growth and that whatever assistance can be given to Chapters and State Societies should be provided for their improved programs and service to the membership, the Budget Committee has set aside some \$5,000 for such activities.

While it is not contemplated to conduct a Salary Survey in 1954, this subject will not be neglected and important correlations of salary information will be studied continuously by the Salary and Fee Committee.

The Employment Practices Committee, the Committee on Industry, the Ethical Practices Committee, and a number of other important Society activities will continue their programs and upward of \$12,000 is provided in the budget for these items.

Meetings of the Society are extremely important if we are to maintain close contact with the individual membership and be sure that the National Society policies reflect accurately the wishes of the membership. As a result, a third Board Meeting is provided in the 1954 Budget, as well as the State Presidents' Conference and Annual Meeting, and the money allocated for meetings in 1954 exceeds \$36,000.

The \$2.00 allocated from each member's dues to cover the yearly subscription to the *American Engineer*, together with the contemplated advertising revenue for 1954, will provide the \$83,000 indicated in the budget to continue the high caliber magazine, thus providing a means of communication with the membership and the many worthwhile, thought-provoking articles by the Nation's leaders.

The Society's small Reserve can hardly be called adequate for an organization the size of NSPE, and so the Budget Committee has very properly provided in next year's budget \$25,000 to be set aside toward building up an adequate Reserve Fund for the Society.

An organization of this size has of course administrative costs. These include reproduction of a number of miscellaneous publications, the maintaining of accounts and membership records, carrying on administrative details such as the election and audits, maintenance of a headquarters office, mailing supplies and materials to members, State Societies and local Chapters, travel of the

various executives, maintenance of legal services, contributions to various organizations with which we cooperate, and similar activities. The 1954 budget provides some \$74,000 which may be allocated in this direction.

While this is only a very sketchy outline of some of the programs of your National Society, it is hoped that it will provide some insight into the vast activities which the 1954 funds will provide. It is sincerely hoped that all members will make it a point to avail themselves of the services of their professional society, to offer their cooperation, and to be active in whatever capacity they may find their services most needed. It is only through the cooperation of all of the members of NSPE that our continued aggressive programs can be maintained.

CAPITAL'S LOSS IS ROCK RIVER'S GAIN

In case you haven't heard, Capital Chapter is losing its most successful past-membership chairman.

On Friday, Dec. 11, Harry Cordes ended 19½ years of duty with the Bridge Office.

On January 1, 1954, Harry reported at Dixon, Illinois, as a partner in the consulting office of C. K. Willett. As expected, he will still work in structural design. Don't like to see you leave Springfield, Harry, but knowing "Chuck" Willett, another active I.S.P.E. member, as well as we do, we don't blame you for leaving us. We know you will have happy days at Dixon, home of Rock River Chapter. A Happy New Year to you.

Capital Chapter Chatter

KLASSEN TOURS THE WORLD FOR U.N.

Not to be outdone by Dick or Adlai, Clarence Klassen, the State's Chief Sanitary Engineer and member of Capital Chapter, took off by air on December 12 on a world tour on an assignment to help implement the U.N.'s program for furnishing technical advice and consultation on the world's health matters.

Before he reports his findings and recommendations to World Health Headquarters at Geneva, Switzerland, he will have covered Hawaii, Guam, the Philippines, Borneo, Formosa, China, India, Siam, Pakistan, Israel, and Italy. He will return in time for the ISPE Annual Meeting at E. St. Louis.

Capital Chapter Chatter

Never chase a lie. Let it alone and it will run itself to death.

—Lyman Beecher.

I hold every man a debtor to his profession;
from the which as men of course do seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and ornament thereunto.

Sir Francis Bacon

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I would like to propose a Fifth Freedom—freedom from ignorance. Think of all the crime, misery, and unhappiness that is caused by ignorance. People who think, and who are intelligent, feel an obligation toward their fellows and the world, that ignorant people never experience. It is ignorance that causes disputes and crimes. Ignorant people do not create, discover, build, plan, and govern. They are lost in a world that they do not understand.

—George Matthew Adams.

Let me live in a house by the side of the road and be a friend to man.

—Sam Walter Foss.

Dignity consists not in possessing honors, but in the consciousness that we deserve them.

—Aristotle.

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A good newspaper and Bible in every house, a good schoolhouse in every district and a church in every neighborhood, all appreciated as they deserve, are the chief support of virtue, morality, civil liberty and religion.

—Franklin

Women detest a jealous man whom they do not love, but it angers them when a man they do love is not jealous.

—L'Enclos

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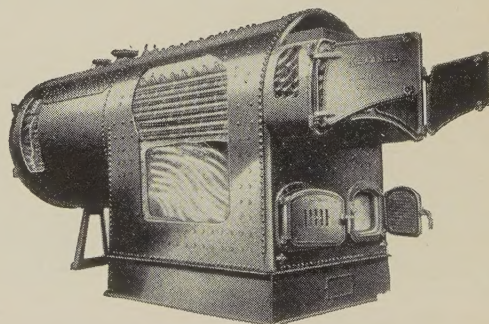
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If placed in a position as a result of an Engineers Available or Position Available advertisement, applicants agree to pay the established placement fee. These rates are available on request and are sufficient to maintain an effective non-profit personnel service. A weekly bulletin of positions open is available to subscribers. Apply E.S.P.S., Chicago.

RECEPTIONIST'S CORNER

A New Year has rolled around again and with it is hope and plans for peace on earth and happiness for all. E.S.P.S. is here to help you find the happiness you are looking for at work. If you are thinking of looking for a new position or new help, WHY not come in and talk things over with us. We will be glad to serve you and extend to you every courtesy possible.

MEN AVAILABLE

Consultant. C.E. Nineteen mos. design of drainage system, estimate cost of highway constr., checking plan and profile sheets, and design of conc. culverts. \$410. Midwest. 770-PE

Project Engineer. C.E. and M.E.. 26. One yr. design and development of hydraulics and pneumatics. One yr. sales, estimating, design steel fabrication. Eighteen mos. chief project eng. on the development of a rocket. \$6000. Midwest. 771-PE

Designer. M.E. 30. One yr. worked on projects involving technical writing. Analysis and estimating balancing problems for customers. Twenty-eight mos. design work on machines, thermodynamic and stress analysis. \$6600. Midwest. 772-PE

Drafting. 27. Thirty-four mos. drafting on pumps, tanks, and signals. \$85/week. Chicago. 773-PE

Draftman. 30. Seventeen mos. layout and design of elect. components, circuits, mech. design of containers, and detail and ass'y of products formed of mechanical rubber products. \$4420. Chicago. 774-PE

Arch. Engr. 33. Five and one-half yrs. drafting field supervision on homes, churches and str. design of reinforced concrete. \$4500. Chicago. 775-PE

Maint. Engr. 53. Thirty yrs. supervise installation, design, estimate price, on all mechanical equipment. Eighteen mos. instructor on pipe fitting. \$7500. Midwest. 776-PE

Estimator. C.E. 40. Seven yrs. estimating, expediting material, progress section and cost-coding section, and supervised construction. \$7500. Chicago. 777-PE

Factory Mgr. Ind. Engr. 34. Three yrs. supervise methods, process, time study and plant layout dept. Forty-two mos. develop and install incentive system in steel fabrication plant. \$6600. Chicago. 778-PE

Factory Mgr. B.A.E. 31. Seven yrs. doing plant layout, production scheduling, supervision, machine setup, repairs, modification,

quality control on packaging machinery. \$6500. Midwest. 779-PE

Starr Engr. C.E. 36. Ten yrs. general charge of design, mfg., and development of new line of cutting tools. \$9000. Midwest. 780-PE

Chief Engr. M.E. 42. Four yrs. supervising dftg. dept., appraise and evaluate bldgs. and equipment. Seven yrs. plant engineering problems, design of special machinery. Eighteen mos. design sewage treating equipment. \$7800. United States. 781-PE

Development Engr. 36. One yr. resp. for reduction of faults in sound projectors and tape recorders. Four/one-half yrs. resp. for patent of oil diffusion pumps. Forty-two mos. developed office, farm and household equipment. \$7500. Midwest. 782-PE

Chief Eng. M.S. E.E. More than ten yrs. with one mining company handling all engrg. work covering machinery, electrical, construction, maintenance, chemical, and buildings. Chicago. \$12,000. 783-PE

POSITIONS AVAILABLE

Director of Design and Development. I.E. M.E. Age: 30-45. 10 plus yrs. exp. in design of production equipment. Knowledge: industrial engrg. and tooling. Duties: direct activities handling tooling and industrial engineering projects covering design and development of jigs, fixtures, and other production equipment. Also need an **Assistant Director** to work under the Director named above. For a manufacturer ordnance. Salary: \$8400-\$9600 yr. Location: Kansas. C-1502.

Constr. Engr. and Estimator. Grad. C.E. 5 plus yrs. exp. in design, constr. and estimating on sewers, underground const.: coffer dams, etc. Duties: Gen's. supervision of constr.; design, est. and all-around work on sewers, underground const., coffer dams, etc. Salary: Open. Location: Chicago. C-1501

Sales Engineer. M.E. Age: up to 30. Recent graduate or better. Knowledge of stokers or allied fields. Duties: sale of industrial stokers, calling on industrials and utilities. For a manufacturer of stokers. Salary: up to \$500 per month. Travel 30%. Car required. Location: Chicago. C-1500

Research and Field Engineer. Grad. C.E. Age: about 30. 3 plus yrs. exp. in pavement work. Duties: laboratory and field work in connection with concrete pavements. Must have pleasing personality and ability to meet people. Salary: \$400 to \$500. Location: Chicago. C-1499

Designer—Plastics. Grad. M.E. 5 yrs. plus exp. in mechanical and plastic die design. Knowledge of plastic molds. Duties: design plastic molds, take customers' specifications and determine methods and type of die and mold to design. Must know presses and general mechanical equipment. Ability to contact people and act as customer contact man in addition to designer. Salary: \$6000-\$8000 per yr. Location: Chicago. C-1498

Chemical Engineer. C.E. Recent grad. or better and knowledge of chemical or other process plant board and field work. Duties: estimating, specification writing, design and field work or process research and development work for a process plant. For a manufacturer of explosives. Salary: \$5600-\$7900 per yr. Location: S.W. Chicago suburb. C-1497(d)

Industrial Engineer. M.E. I.E. 2 plus yrs. exp. in preventive maintenance and cost control or plant layout and cost control. Duties: general industrial engineering in either plant layout and cost control or preventive maintenance and cost control for a processing plant. For a manufacturer of explosives. Salary: \$6500. Location: S.W. Chicago suburb. C-1497(c)

Civil Engineer. Must have degree in C.E. or M.E. with 2-10 yrs. exp. in light structural steel design, concrete slab and foundation design, and surface road layout and design. Salary: to \$6500. Location: 40 miles S.W. of Chicago. C-1497(b)

Electrical Engineer. Must have degree. 2-10 yrs. exp. in power plant and distribution line layout and design. Salary: to \$6500. Location: S.W. of Chicago. C-1497(a)

Sales Instruments. Age: 30. 3 plus yrs. exp. in sale of electronic instruments in Chicago preferred. Knowledge of process industrial helpful. Duties: sale and electronic instrumentation of instruments—call on industrials and O.E.M.'s. For a manufacturer of instruments. Salary: \$7500. Employer will negotiate fee. Travel: Chicago area for most part. Car required. Location: Chicago. C-1496

Plant Superintendent. M.E. prf'd. Age: 30-45. 3 plus yrs. exp. in supervisory work in sheet metal fabrication, machine shop, or foundry. Knowledge of integrating all functions of production departments. Duties: supervise all production depts., consisting of 9 foremen of various operations, production controls, tooling and line balancing, industrial engineering, quality controls, and cost reduction program. For a manufacturer of metal caps. Salary: \$7000-\$8000. Employer will negotiate fee. Location: Chicago. C-1495